



SUPER M2-Self-Elevating Drilling Unit

H1300 Jack up Drilling rig is with the length of 59.745meters, width of 55.78meters, and depth of 7.62meters; the leg length of 125meters, the maximum working depth of 91.44meters, the maximum drilling depth of 9144 meters; specified accommodation of 110persons and classed by ABS. The Friede & Goldman provides the basic design, CIMC Raffles independently complete the detailed design and the construction design.

GENERAL

Class : ABS
Notation : ABS XA1 Self-Elevating Drilling Unit,
CDS,CPS,CRC

PRINCIPAL DIMENSIONS

Length o.a. : 59.745m
Beam o.a. : 55.78 m
Depth moulded : 7.62m
Transit Draught : 4.8m
No. of legs : 3
Leg length : 125.3m
Spud can diameter : 12.09m
Spud can height : 4.57m
Drilling Depth : 30,000ft

DESIGN ENVIRONMENT

Service area : TBA
Water depth : 91.44m
Air Temperature : -10°C min. to 40°C ~max.
Humidity : 30% min. to 90%max.
Wind Survival Operations : 100kts
Seawater
Temperature : 0°C min. to 35°C
Density : 1025 kg/m³ (For design purposes)
Corresponding wave period: 13.5sec
Wave Height : 15.24m(Survival, of the water depth 300ft);
16.46m(Survival, of the water depth 250ft)

CARGO CAPACITIES

Deck Load : 9000kips
Pipe rack : 540lbs/ft²
Main deck (outside pipe rack): 425lbs/ft²
Quarter's deck : 90lbs/ft²
House Tops : 150lbs/ft²
Machinery Spaces : 270lbs/ft²
Sack stores : 540lbs/ft²

MACHINERY/PROPULSION

Main engines and Generators:
CATERPILLAR 3516C HD Offshore
Generator Set: 5SET,1603eKW, 600V, 60Hz
Emergency : CATERPILLAR C32 Emergency
Generator Set: 1 set 710eKW, 480V, 60Hz, 1800rpm
Fuel Purifier : 1500L/H Two (2) ALFA-LAVAL MAB or equal.
Oily Water Sep : 5m³/h, the max oil content<15ppm.
Sewage Plant : 1 x 120 man capacity, gray & black water.
Preload System : 3 centrifugal, vertical submersible
pumps,500m³/h@65m head.
FW Generator : 2 x 40m³/D.
Air Compressors: 2 x rig air compressor
1180m³/h@9bar/480V-3P-60HZ/IP44.
1 x bulk air compressor
1180m³/h @8bar/460V-3P-60HZ/IP44
Fuel Pumps : 2 x Fuel oil transfer pumps, 13m³/h @
4.5bar /1750 rpm/480V-3P-60HZ/IP55
Jacking System : NOV-BLM D60H/SUPER MOD2
Rack Chock Sys : Friede & Goldman ARCOS

FIRE FIGHTING & SAFETY

Fire Fighting : 2 x pumps 160 m³/hr @ 7 bar
RPM 3500 rpm/480V-3P-60HZ/IP55
Life Boats : 2x120 person/diesel drive/speed≥6knot
1 x Rescue Boat (6 men)
Life Rafts : 5 x 25 men

HELIDECK

1 x Heli-deck suitable for Sikorsky S-61N helicopter

NAVIGATION EQUIPMENT

including electronic aids, electronic telecommunications system, radio telecommunication equipment, sensing, indicating and control equipment in accordance with the Regulatory Body requirement.

COMMUNICATION EQUIPMENT(GMDSS)

2 INMARSAT C
2 GMDSS RadioMF/HF
3 VHF radios
1 Satellite EPIRB
1 Navtex receiver
6 hand held VHF transceivers
2 Radar Transponders for lifeboats, the other 2 in jacking control room.
1 Aviation VHF installed in the Jacking Control room for Helicopter communications
2 Waterproof VHF radios for use in the Survival Capsules(portable)
2 VHF LOCATED IN JACKING CONTROL ROOM(portable)
2 VHF Radio located in cranes
6 UHF handheld transceiver
1 Fleet Broadband 500

ACCOMMODATION

The accommodation and mess facilities are fit for 120 persons. The accommodation shall follow the guidelines for ILO regulations and be able to house 120 men in 4-man cabins (Have Approached Flag state for release).

REFRIGERATED STORAGE CAPACITY

Cold store : 1 x 13 m³ walk in Freezer
Chiller : 1 x 16 m³ walk in Chiller room
Provisions : 1 x 25 m³ walk in Provisions room

DECK MACHINERY

Main Deck Crane : 1 x 120ft 50ton at 28.5ft/diesel drive
1 x 100ft 50ton at 25ft/diesel drive
4 Point Moor System : 4 x Single Drum winches, Brake Hold
1170kN, first layer
Anchors : 4 x anchors, 3.1752T ea
Towing Gear : bridle , 8m*266mm steel chain;
Hook-up, 5Ton Air tugger winch
Rating, MBL.320T

